in two mutually perpendicular directions by a pair of motors 19 and 20, the particular details of the mechanical arrangement for moving stage 17 not being a part of this invention.

B1 Cont

Please rewrite the third full paragraph in page 19 to read as follows:

In the operation of apparatus 92, light from source 93 strikes surface 12 of wafer 13 at an angle of incidence α which is preferably between 0 and 45 degrees.

B2

Please rewrite the fourth full paragraph in page 19 to read as follows:

Light scattered upward from the area illuminated is collected by first imaging lens 94 and strikes beamsplitter 95 where it is split into a transmitted beam 95-1 and a reflected beam 95-2. A Fourier transformation of the light collected by first imaging lens 94 using light from the reflected beam 95-2 is formed is formed at second camera 99. At the same time, light collected by first lens 94 that is transmitted through beamsplitter strikes SLM 107 whose liquid crystal is in the back focal plane of lens 93.

Please rewrite the fourth full paragraph in page 20 to read as follows:

Apparatus 121 also includes a programmable Fourier mask 141, having an electrically addressable SLM 143 identical to SLM 91 and a crossed polarizer 145, a

B3

sixth lens 147, a seventh lens 149, a second camera 151, a third camera 153, a processor 155 and an SLM controller 157. Camera 85, 151 and 153 may be CCD cameras.

Please rewrite the paragraph bridging pages 20 and 21 to read as follows:

Lens 147 in combination with lens 131 images the Fourier diffraction pattern

B4

formed in Fourier plane 159 of lens 129 into camera 151 where the image is converted into a stream of digital electrical signals. The stream of digital electrical signals are

processed in processor 155, as maybe desired. The processing may include raising the overall gain and/or magnitude of the image and/or blocking out selected areas and/or making the offset of the two images zero. The output of processor 155 is fed into controller 157. The output of controller 157 is fed into SLM 143. At the same time, lens 131 in combination with lens 133 images the Fourier diffraction pattern formed at Fourier plane 159 onto the liquid crystal in SLM 143. Lens 129 in combination with lens 131 forms an image of the area illuminated by light source 123 at image plane 124. The image formed at image plane 124 is then collected by lens 133 is passed through Fourier mask 141. The filtered image is then transmitted through beamsplitter 139 and then brought to focus at first camera 85. The refraction pattern at Fourier plane 159 is imaged by lenses 149, 131 and 133 onto camera 153 so that the alignment of the two images on SLM 143 can be viewed.

Please rewrite the last paragraph on page 22 to read as follows:

The embodiments of the present invention recited herein are intended to be merely exemplary and those skilled in the art will be able to make numerous variations and modifications to it without departing from the spirit of the present invention. For example, an array of photodiodes can be used in place of any or each one of the cameras. Also, if the laser beam is S polarized rather than P polarized, the polarization sensitive optics would have to be adjusted accordingly. Also, the laser beams could be oriented at an angle α greater than 45 degrees if desired, even as high as 90 degrees, in which case the detection would be in bright field. All such variations and modifications are intended to be within the scope of the present invention as defined by the claims appended hereto.